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Database:	US Pre-Grant Public US Patents Full-Tex US OCR Full-Text DEPO Abstracts Data JPO Abstracts Data Derwent World Pate IBM Technical Discl	Patabase base base nts Index	pase	
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•	LUR=YES; OP=AI			,
<u>L1</u> 6653	8086.pn.	1 <u>L1</u>		

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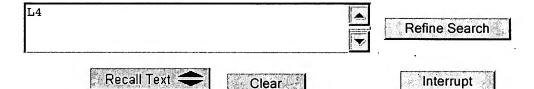
Search Results -

Terms	Documents
L3 and (gprs or gpr4 or gpr6 or gpr12 or gpr21 or ogr1 or ghr1 or ghsr or re2 or al022171)	63

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DB=P	GPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
<u>L4</u>	L3 and (gprs or gpr4 or gpr6 or gpr12 or gpr21 or ogr1 or ghr1 or ghsr or re2 or al022171)	63	<u>L4</u>
<u>L3</u>	12 and (inverse agonist or partial agonist)	211	<u>L3</u>
<u>L2</u>	11 and orphan receptor	433	<u>L2</u>
<u>L1</u>	constitutively and active and (g protein coupled receptor or gpcr)	2735	<u>L1</u>

END OF SEARCH HISTORY

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- => s constitutively and active and (g protein coupled receptor or gpcr)
 L1 1783 CONSTITUTIVELY AND ACTIVE AND (G PROTEIN COUPLED RECEPTOR OR GPCR)
- => 11 and orphan receptor3
- L2 0 L1 AND ORPHAN RECEPTOR3
- => 11 and orphan receptor#
- L3 32 L1 AND ORPHAN RECEPTOR#
- => s l1 and orphan receptor#
- L4 32 L1 AND ORPHAN RECEPTOR#
- => s l1 and and (inverse agonist or partial agonist)
 MISSING TERM 'AND AND'
 The search profile that was entered contains a logical
 operator followed immediately by another operator.
- => s l1 and (inverse agonist or partial agonist)
 L5 428 L1 AND (INVERSE AGONIST OR PARTIAL AGONIST)
- => s 15 and orphan receptor# L6 15 L5 AND ORPHAN RECEPTOR#
- => dup rem 16

PROCESSING COMPLETED FOR L6

L7 9 DUP REM L6 (6 DUPLICATES REMOVED)

=> d ibib 17 1-9

L7 ANSWER 1 OF 9 MEDLINE on STN

DUPLICATE 1

ACCESSION NUMBER: 2006073475 MEDLINE DOCUMENT NUMBER: PubMed ID: 16406086

TITLE: Recent developments in constitutive receptor activity and

inverse agonism, and their potential for GPCR

drug discovery.

AUTHOR: Bond Richard A; Ijzerman Ad P

CORPORATE SOURCE: Department of Pharmacological and Pharmaceutical Sciences,

University of Houston, 4800 Calhoun, Houston, TX

77204-5037, USA.

SOURCE: Trends in pharmacological sciences, (2006 Feb) Vol. 27, No.

2, pp. 92-6. Electronic Publication: 2006-01-06. Ref: 58

Journal code: 7906158. ISSN: 0165-6147.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200604

ENTRY DATE: Entered STN: 7 Feb 2006

Last Updated on STN: 5 Apr 2006 Entered Medline: 4 Apr 2006

L7 ANSWER 2 OF 9 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER:

2004-082201 [08] WPIDS

DOC. NO. CPI:

C2004-033915 [08]

TITLE:

Determining whether a constitutively

active G protein .

coupled receptor such as dopamine

receptor, has potential therapeutic activity

DERWENT CLASS:

B04; D16; P14

INVENTOR:

BEINBORN M; KOPIN A S

PATENT ASSIGNEE:

(BEIN-I) BEINBORN M; (KOPI-I) KOPIN A S; (NEWE-N) NEW

ENGLAND MEDICAL CENT HOSPITALS INC

COUNTRY COUNT: 101

PATENT INFO ABBR.:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

WO 2003106694 A2 20031224 (200408)* EN 76[12]

US 20040049800 A1 20040311 (200419) EN AU 2003276653 A1 20031231 (200451) EN AU 2003276653 A8 20051103 (200629) EN

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE

WO 2003106694 A2 WO 2003-US18561 20030611
US 20040049800 A1 Provisional US 2002-388450P 20020613
AU 2003276653 A1 AU 2003-276653 20030611
US 20040049800 A1 US 2003-458860 20030611
AU 2003276653 A8 AU 2003-276653 20030611

FILING DETAILS:

PATENT NO KIND PATENT NO

AU 2003276653 A1 Based on WO 2003106694 A
AU 2003276653 A8 Based on WO 2003106694 A

PRIORITY APPLN. INFO: US 2002-388450P 20020613

US 2003-458860 20030611

L7 ANSWER 3 OF 9 WPIDS COPYRIGHT 2007

THE THOMSON CORP on STN

ACCESSION NUMBER: 2003-742861 [70] WPIDS

1999-105468; 1999-611285; 2000-195260; 2000-317935; CROSS REFERENCE: 2000-317986; 2000-329165; 2000-400068; 2001-079410;

2001-662798; 2002-566565; 2002-706980; 2003-428952; 2003-801247; 2003-897571; 2003-898539; 2004-051907;

2004-052038; 2004-440359; 2004-533360

DOC. NO. CPI: C2003-203982 [70]

Creating a constitutively active TITLE:

version of an endogenous human G

protein coupled receptor (

GPCR) comprises substituting a specific amino

acid in the transmembrane-6 region with a different amino

acid, and testing for constitutive activity

DERWENT CLASS: B04; D16

BEHAN D P; CHALMERS D T; LIAW C W INVENTOR:

(AREN-N) ARENA PHARM INC PATENT ASSIGNEE:

COUNTRY COUNT:

PATENT INFO ABBR.:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

US 6555339 B1 20030429 (200370)* EN 222[8]

APPLICATION DETAILS:

KIND PATENT NO APPLICATION DATE ______ US 6555339 B1 CIP of US 6555339 B1 CIP of US 1997-839449 19970414 US 6555339 B1 CIP of US 1998-90783P 19980626 US 1998-95677P 19980807 US 1998-95677P 19980807 US 6555339 B1 US 1998-170496 19981013

PRIORITY APPLN. INFO: US 1998-170496 19981013

US 1997-839449 19970414 US 1998-60188 19980414 US 1998-90783P 19980626 US 1998-95677P 19980807

ANSWER 4 OF 9 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER: 2003-058447 [05] WPIDS

DOC. NO. CPI:

C2003-014942 [05]

DOC. NO. NON-CPI:

N2003-045350 [05]

TITLE:

Construction of three-dimensional structural models of

G protein-coupled

receptor and binding ligand complex as well as

activation intermediates, applicable in identifying, examining, searching, evaluating and designing drugs

DERWENT CLASS:

B04; S03; T01

INVENTOR:

ISHIGURO M

PATENT ASSIGNEE: (SUNR-C) SUNTORY LTD; (ISHI-I) ISHIGURO M

COUNTRY COUNT: 28

PATENT INFO ABBR.:

PATENT NO	KIND DATE	WEEK	LA	PG	MAIN IPC
WO 2002079784 EP 1376132 AU 2002243016 JP 2002577563 US 20070010948	A1 20021010 A1 20040102 A1 20021015 X 20040722 A1 20070111	(200409) (200432) (200448)	JA EN EN JA EN	390[3]	

APPLICATION DETAILS: .

PATENT NO KIND	APPLICATION	DATE
WO 2002079784 A1 AU 2002243016 A1	WO 2002-JP3264 AU 2002-243016	
EP 1376132 A1	EP 2002-708749	20020401
JP 2002577563 X EP 1376132 A1	JP 2002-577563 WO 2002-JP3264	
JP 2002577563 X US 20070010948 A1	WO 2002-JP3264 WO 2002-JP3264	
US 20070010948 A1	WO 2002-3P3264 US 2004-473681	

FILING DETAILS:

PATENT NO	KIND			PAT	TENT NO	•
EP 1376132 A1		Based	on	WO	2002079784 A	
AU 2002243016	A1	Based	on	WO	2002079784 A	
JP 2002577563	X	Based	on	WO	2002079784 A	

PRIORITY APPLN. INFO: JP 2001-101510 20010330

L7 ANSWER 5 OF 9 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER:

2002-666899 [71] WPIDS

DOC. NO. CPI:

C2002-187210 [71]

TITLE:

New modified and desensitized G-protein

coupled receptors (GPCR),

useful for screening therapeutic compounds for treating a

conditions mediated by GPCR in mammals, or for screening inhibitors of arrestin binding to a

GPCR

DERWENT CLASS:

B04; D16; P14

INVENTOR:
PATENT ASSIGNEE:

BARAK L S; CARON M G; LAPORTE S A; OAKLEY R H; WILBANKS A (BARA-I) BARAK L S; (CARO-I) CARON M G; (LAPO-I) LAPORTE

S A; (OAKL-I) OAKLEY R H; (UYDU-N) UNIV DUKE; (WILB-I)

WILBANKS A

COUNTRY COUNT:

99

PATENT INFO ABBR.:

PA	TENT NO	KINI	D DATE	WEEK	LA	PG	MAIN IPC
WO	2002059267	A2	20020801	(200271)*	EN	171[17]	
US	20030049643	A1	20030313	(200321)	EN		
EΡ	1368378	A2	20031210	(200382)	EN		
ΑU	2002245290	A1	20020806	(200427)	EN.		
JP	2004524834	W	20040819	(200455)	JA	254	,

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION DATE
WO 2002059267 US 2003004964 US 2003004964 AU 2002245290 EP 1368378 A2 JP 2004524834 EP 1368378 A2	3 Al Provisional . 3 Al Al W	WO 2002-US1701 20020123 US 2001-263406P 20010123 US 2002-54616 20020122 AU 2002-245290 20020123 EP 2002-713440 20020123 JP 2002-559554 20020123 WO 2002-US1701 20020123
JP 2004524834		WO 2002-US1701 20020123

FILING DETAILS:

PATENT NO	KIND	PATENT NO

EP 1368378 A2 Based on WO 2002059267 A
AU 2002245290 A1 Based on WO 2002059267 A
JP 2004524834 W Based on WO 2002059267 A

PRIORITY APPLN. INFO: US 2002-54616 20020122 US 2001-263406P 20010123

L7 ANSWER 6 OF 9 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

DUPLICATE 2

ACCESSION NUMBER: 2000-317935 [27] WPIDS

CROSS REFERENCE: 1999-105468; 1999-611285; 2000-195260; 2000-317986;

2000-329165; 2000-400068; 2001-079410; 2001-662798; 2002-566565; 2002-706980; 2003-742861; 2003-801247;

2004-051907; 2004-052038; 2004-440359

DOC. NO. CPI: C2000-096286 [27]

TITLE: Identifying compounds with inverse

agonist activity to orphan

receptors useful for treating e.g. Graves'

disease, and schizophrenia, involves contacting candidate

compounds with constitutively activated

receptors

DERWENT CLASS:

SS: B04; D16

INVENTOR: BEHAN D P; CHALMERS D T; LIAW C W; BEHAN P; CHALMERS T;

LIAW W

PATENT ASSIGNEE: (AREN-N) ARENA PHARM INC

COUNTRY COUNT:

PATENT INFO ABBR.:

PAT	TENT NO	KINI	DATE	WEEK	LA	PG	MAIN	IPC	
	2000021987			(200027) *		110[17]			
	2001085911 2163384	T1	20010907 20020201	(200225)	KO ES				
	2001003738 2002527727		20010701 20020827	•	ES JA	105	•		
DE	69929993	Т2	20061026	(200671)	DE				

APPLICATION DETAILS:

PATENT NO KIND	APPLICATION DATE
WO 2000021987 A2	WO 1999-US23935 19991012
ES 2163384 T1 JP 2002527727 W	EP 1999-951991 19991012 WO 1999-US23935 19991012
JP 2002527727 W MX 2001003738 A1	JP 2000-575892 19991012 MX 2001-3738 20010411
KR 2001085911 A	KR 2001-704587 20010412
DE 69929993 T2 DE 69929993 T2	DE 1999-629993 19991012 EP 1999-951991 19991012
DE 69929993 T2	WO 1999-US23938 19991012

FILING DETAILS:

PAT	TENT NO	KIND			PAT	TENT NO	
ES	2163384	T1	Based	on	EP	1121431	A
JP	2002527727	W	Based	on	WO	2000021987	Α
DE	69929993	T2	Based	on	EP	1121431	Α
DE	69929993	T2	Based	on	WO	2000022129	Α

PRIORITY APPLN. INFO: US 1998-170496 19981013

L7 ANSWER 7 OF 9 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER: 2000-195260 [17] WPIDS

CROSS REFERENCE: 1999-105468; 1999-611285; 2000-317935; 2000-317986; 2000-329165; 2000-400068; 2001-079410; 2001-662798; 2002-566565; 2002-706980; 2003-428952; 2003-742861; 2003-801247; 2003-897571; 2003-898073; 2003-898539; 2004-051907; 2004-052038; 2004-440359; 2004-533360 DOC. NO. CPI: C2000-060550 [17] TITLE: Identification of a compound useful as a therapeutic agent, comprises identifying a compound against constitutively activated G protein-coupled orphan receptors DERWENT CLASS: B04; D16 INVENTOR: BEHAN D P; CHALMERS D T; CHEN R; LIAW C; LIAW C W; LIN; LIN I; LIN-LIN I; LOWITZ K; LOWITZ K P; WANGGAO L

PATENT ASSIGNEE: (AREN-N) ARENA PHARM INC

COUNTRY COUNT: 85

PATENT INFO ABBR.:

PAT	TENT NO	KINI	DATE	WEEK	LA	PG	MAIN IPC
WO	2000006597	A2	20000210	(200017)*	EN	122[18]	-
ΑU	9955459	Α	20000221	(200029)	EN		
EΡ	1095275	A2	20010502	(200125)	EN		
NO	2001000509	Α	20010319	(200129)	NO		
CN	1323396	A	20011121	(200218)	ZH		
NZ	509429	Α	20020628	(200252)	EN		
JP	2002521681	W	20020716	(200261)	JA	123	
ΑU	751080	В	20020808	(200263)	EN		
US	6653086	B1	20031125	(200403)	EN		
US	20040147429	A1	20040729	(200450)	EN		
CN	1231762	C	20051214	(200654)	ZH		
CN	1847853	Α	20061018	(200714)	zH		

APPLICATION DETAILS:

PA	TENT NO KIND	APPLICATION DATE
WO US	2000006597 A2 6653086 B1 CIP of 20040147429 A1 CIP of	
US	20040147429 A1 CIP of	US 1998-60188 19980414
US	6653086 B1 Provisional	US 1998-94879D 19980731
US	20040147429 Al Provisional	US 1998-94879P 19980731
US	6653086 B1 Provisional 20040147429 A1 Provisional	US 1998-106300P 19981030
US	20040147429 Al Provisional	US 1998-106300P 19981030
US	6653086 Bl.Provisional	US 1998-110906P 19981204
US	20040147429 Al Provisional	US 1998-110906P 19981204
US	6653086 B1 Provisional	US 1999-121851P 19990226
US	20040147429 A1 Provisional	US 1999-121851P 19990226
ΑU	9955459 A	AU 1999-55459 19990730
ΑU	751080 B	AU 1999-55459 19990730
CN	1323396 A	CN 1999-812265 19990730
	1231762 C	CN 1999-812265 19990730
ΕP	1095275 A2	EP 1999-941990 19990730
		NZ 1999-509429 19990730
US		US 1999-364425 19990730
US	20040147429 A1 Cont of	US 1999-364425 19990730
	1095275 A2	WO 1999-US17425 19990730
NO	2001000509 A	WO 1999-US17425 19990730
NZ	509429 A	WO 1999-US17425 19990730
	2002521681 W	WO 1999-US17425 19990730
JP	2002521681 W	JP 2000-562393 19990730
NO	2001000509 A	NO 2001-509 20010130
US	20040147429 A1	US 2003-668035 20030922
CN	1847853 A	CN 2005-10116399 19990730

FILING DETAILS:

PATENT NO	KIND	PATENT NO					
		Publ AU 9955459 A					
US 20040147	429 Al Cont of	US 6653086 B					
AU 9955459	A Based on	WO 2000006597 A					
EP 1095275		WO 2000006597 A					
NZ 509429 A	Based on	WO 2000006597 A WO 2000006597 A					
JP 20025216	B1 W Based on	WO 2000006597 A					
AU 751080 B	Based on	WO 2000006597 A					
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	US 1998-106300F						
	US 1998-110906F						
	US 1998-60188	19980414					
	US' 1999-364425						
	US 2003-668035	20030922					
STN		IGHT (c) 2007 The Thomson Corporation on					
ACCESSION NUMBER: THE GENUINE ARTICI		ISEARCH					
TITLE:		Johan of Gunnerale					
TITE.	coupled recentor	ulation of G-protein- rs: A new avenue into					
	drug discovery	is: A new avenue into					
AUTHOR:	Sautel M (Reprin	nt): Milligan G					
CORPORATE SOURCE:	INRA, Unite BCM,	Domaine Vilvert, F-78352 Jouy En Josas,					
	France (Reprint)	France (Reprint); Univ Glasgow, Inst Biomed & Life Sci, Div Biochem & Mol Biol, Glasgow G12 8QQ, Lanark, Scotland					
COUNTRY OF AUTHOR:	: France; Scotland	i					
SOURCE:	CURRENT MEDICINAL CHEMISTRY, (SEP 2000) Vol. 7, No. 9, pp.						
	889-896.	, vol. 7, No. 3, pp.					
	ISSN: 0929-8673.	•					
PUBLISHER:	BENTHAM SCIENCE NETHERLANDS.	PUBL LTD, PO BOX 1673, 1200 BR HILVERSUM,					
DOCUMENT TYPE:	General Review;	Journal .					
LANGUAGE:	English						
REFERENCE COUNT: ENTRY DATE:	71	,					
ENIRY DATE:	Entered STN: 200						
	Last Updated on *ABSTRACT IS AVAI	SIN: 2000 LABLE IN THE ALL AND IALL FORMATS*					
L7 ANSWER 9 OF 9	WPIDS COPYRIGHT 2	2007 THE THOMSON CORP on STN					
DUPLICATE 3							
ACCESSION NUMBER:	1999-105468 [09						
CROSS REFERENCE:	1999-611285; 20	000-195260; 2000-317935; 2000-317986;					
	2000-329165; 20	01-079410; 2001-662798; 2002-706980;					
	2003-742861; 20	03-801247; 2004-051907; 2004-052038;					
DOC. NO. CPI:	2004-440359						
DOC. NO. CPI:	C1999-031314 [0	- -					
TITLE:	N1999-076194 [0	onists of orphan					
11122.	receptors from	their effect on the					
	constitutively	active receptor -					
	particularly the	erapeutically active					
	inverse agonist	s at G					
	protein coupled	receptors.					
	without requiri	ng knowledge of endogenous ligand or					
D. D. L.	receptor function	on					
DERWENT CLASS:	B04; D16; S03						
INVENTOR: PATENT ASSIGNEE:	BEHAN D P; CHALI	MERS D; CHALMERS D T					
FAIGNI ASSIGNEE:	(AKEN-N) ARENA	PHARM INC; (BEHA-I) BEHAN D P; (CHAL-I)					
	спацивко D; (СН	AL-I) CHALMERS D T					

81

PATENT INFO ABBR.:

PAT	TENT NO	KINI	DATE	WEEK	LA	PG	MAIN	IPC
WO	9846995	A1	19981022	(199909)*	EN	114[7]		·
AU	9871166	Α	19981111	(199912)	EN			
EΡ	965041	A1	19991222	(200004)	EN			
ES	2147167	T1	20000901	(200047)	ES			
KR	2000070545	Α	20001125	(200131)	KO	[17]		
ΝZ	336479	Α	20011026	(200176)	EN			
AU	743259	В	20020124	(200221)	EN			
IL	130880	Α	20040328	(200429)	EN			

APPLICATION DETAILS:

PATENT NO	KIND	API	PLICATION	DATE
WO 9846995 A1		wo	1998-US7496	19980414
AU 9871166 A		ΑU	1998-71166	19980414
AU 743259 B		ΑU	1998-71166	19980414
EP 965041 A1		EP	1998-918196	19980414
ES 2147167 T1		ΕP	1998-918196	19980414
IL 130880 A		ΙL	1998-130880	19980414
NZ 336479 A		NZ	1998-336479	19980414
EP 965041 A1		WO	1998-US7496	19980414
KR 2000070545	A	WO	1998-US7496	19980414
NZ 336479 A		WO	1998-US7496	19980414
KR 2000070545	A	KR	1999-706790	19990728

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 743259 B ES 2147167 T1 AU 9871166 A	Previous Publ Based on Based on	AU 9871166 A EP 965041 A WO 9846995 A
EP 965041 A1 KR 2000070545 A	Based on	WO 9846995 A WO 9846995 A
NZ 336479 A AU 743259 B	Based on	WO 9846995 A
IL 130880 A	Based on Based on	WO 9846995 A WO 9846995 A

PRIORITY APPLN. INFO: US 1997-839449 19970414 WO 1998-US7496 19980414

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